6

(49)

NAME OF THE WORK : Construction of Gazebo, Watchmen Shed, Pathway Improvement, Child Play Equipment and other development work Doddabommasandra lake ward No.10

COST SUMMARY

Est. No.	DESCRIPTION OF THE ESTIMATE	Estimate cost (₹)
1	REMOVAL OF SILT FROM WETLAND -2 AREA	1213500.00
2	PROVIDING COMPOUND WALL WITH CHAIN LINK FENCING NEXT TO WASTE WIER	1606884.33
3	PATHWAY IMPROVEMENT	2326226.16
4	SUMP TANK	84961.85
5	WATCHMEN SHED WITH TOILET	1586156.18
6	PROVIDING CHILD PLAY EQUIPMENTS	1851829.59
7	ELECTRICAL WORKS	44543.70
	Total-Cost (₹)	**8714101.80**
9	ADD 12% GST FOR CONTRACTOR FOR ITEMS INCLUDED FROM PWD BCSR 2018-19, and 18 % GST for child play equipment	1080866.68
10	Provision for PMC charges at 1 % of sub total amount	87141.02
11	GST 18% for PMC	15685.38
12	Contingency, Miscellaneous & rounding off	2205.13
	Grand Total (₹)	**9900000.00**

****** Rupees Ninety Nine Lakhs Only ******

Administrative sanction 99,00,000/- Rs. Ninety nine lakhs only
Is accorded Under 24-15
Registered ... 02/20-21
Subject ... enclosed
Memo No. AS/02/20 09/06/20
JE / AE 09/06/2020 EE/SE/CE 9/6/20

Ministry sanctioned for Rs. 99,00000/- Ninety Nine lakhs only
Under 2415
Registered ... 02/20-21
Subject ... contained in enclosed
Memo No. TS/02/20 Date 01/7/2020
JE / AE 01/07/2020 EE/SE/CE 1/7

21/5/2020
Environmental Engineer
Lakes ,BBMP

21/5/2020
Assistant Executive Engineer
Lakes ,BBMP

21/5/20
Executive Engineer
Lakes ,BBMP

Chief Engineer
Lakes, BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER-4, LAKES DIVISION

Detailed Estimate

Rates as per MI BCSR 2018-19

Name of Work : Construction of Gazebo, Watchmen Shed, Pathway Improvement, Child Play Equipment and other development work Doddabommasandra lake ward No.10

Provision made in estimate:

1. REMOVAL OF SILT FROM WETLAND -2 AREA

Slno	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	De-silting tank bed/ Feeder channel in dry condition by excavating the deposited bed material and disposing off the same by stacking/formation of Embankment or as directed including cost of all machinery, labour etc., complete with lead up to 1 km and all lifts.(MI BCSR 2018-19.P-116,I-7.54.2)								
1	**MI BCSR 2018-19.P-116,I-7.54.2**								
	Basic Rate:				=	73.00			
	Total item Rate				=	73.00			
	Wetland -2 Area			5000.00		1.0	5000.00		
	Total						**5000.00**		
		Cum					**5000.00**	**73.00**	**365000.00**
	Extra lead for dumping the removed quantity of Silt to specified dump yard for a distance of 17 km from lake, 17 km lead taken = (lead more than 4 km up to 5 km - initial lead + every km beyond 5 km up to 17 km) = (Rs.111.50-Rs.66.60)+(12 kmxRs.10.40) = Rs.169.70								
2	**(MI BC SR, 2018-19 P-21, Table)**								
	Total Lead take n is 17 km								
	(lead more than 4 km up to 5 km - initial lead + every km beyond 5 km up to 17 km) = (Rs.111.50-Rs.66.60)+(12 kmxRs.10.40) = Rs.169.70								
	Silt Quantity	**Cum**					**5000.00**	**169.70**	**848500.00**
								SUB-TOTAL	**12,13,500.00**
3	**Works contract GST 12%** as per 2018-19 PWD BC SR Note.5 as per Govt Letter No.PWD 65								**1,45,620.00**
								GRAND-TOTAL	**13,59,120.00**
	Total (Rupees Ninety Nine Lakhs Only)								

CERTIFICATE:-

1) This work spot has been inspected and the work is found to be necessary.
2) The work proposed in this estimate is not included in any other scheme.
3) The provision were made in this estimate are necessary essential and adequate to execute the
4) The above work location is coming under jurisdiction of BBMP limit.

21/5/2020
Environmental Engineer,
Lakes Division BBMP

21/5/2020
Assistant Executive Engineer,
Lakes Division BBMP

21/5/20
Executive Engineer-4,
Lakes Division BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER-4, LAKES DIVISION

Detailed Estimate

Rates as per MI BCSR 2018-19

of Work : Construction of Gazebo, Watchmen Shed, Pathway vement, Child Play Equipment and other development work abommasandra lake ward No.10

sion made in estimate:

OVIDING COMPOUND WALL WITH CHAIN LINK FENCING NEXT TO WASTE

	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications.ordinary soil								
	PWD BCSR 2018-19,page 6 item 2.1								
	Basic Rate:					249.00			
1	Add area weight age 6% as per PWD- SR Note					14.94			
	Total item Rate					263.94			
	vacant land at waste wier		1	75.00	1.20	0.6	54.00		
	Chainlink fencing collpsed portion at lake boundry		1	65.00	1.20	0.6	46.80		
	Total						**100.80**		
		Cum					**100.80**	**263.94**	**26605.15**
2	**Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.**								
	PWD BCSR 2018-19,page 13 item 4.2								
	Basic Rate:					5194.00			
	Add area weight age 6% as per PWD- SR Note					311.64			
	Total item Rate					5505.64			
	vacant land at waste wier		1	75.00	1.20	0.15	13.50		
	Chainlink fencing collpsed portion at lake boundry		1	65.00	1.20	0.15	11.70		
	Total						**25.20**		
		Cum					**25.20**	**5505.64**	**138742.13**

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cription Of Work	Unit	No	L	B	D	Qty	Rate	Amount
ding and constructing granite / trap / basalt size stone masonry undation cement mortar 1:6, stone hammered dressed in courses ess than 20 cms high, bond stones at two m. apart in each course uding cost of materials, labour, curing complete as per cifications.								
D BCSR 2018-19, page 25 item 5.6								
sic Rate:						4596.00		
d area weight age 6% as per PWD- SR Note						275.76		
tal item Rate						4871.76		
cant land at waste wier		1	75.00	1.20	0.6	54.00		
Chainlink fencing collpsed portion at lake boundry		1	65.00	1.20	0.6	46.80		
						100.80		
Total						**100.80**	**4871.76**	**491073.41**
	Cum							
Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (PWD BCSR 2018-19,P-25,I-5.9)								
(PWD BCSR 2018-19,P-25,I-5.9)								
Basic Rate:						5483.00		
Add area weight age 6% as per PWD- SR Note						328.98		
Total item Rate						5811.98		
4								
vacant land at waste wier		1	75.00	0.80	0.6	36.00		
Chainlink fencing collpsed portion at lake boundry		1	65.00	0.80	0.6	31.20		
Total						**67.20**		
Deduct concrete for pole fixing						**15.34**		
	Cum					**51.86**	**5811.98**	**301432.53**
Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses,								
PWD BCSR 2018-19,page 14 item 4.12								
Basic Rate:						6045.00		
5 Add area weight age 6% as per PWD- SR Note						362.70		
Total item Rate						6407.70		
vacant land at waste wier		38	0.60	0.60	0.6	8.21		

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cription Of Work	Unit	No	L	B	D	Qty	Rate	Amount
link fencing collpsed n at lake boundry		33.00	0.60	0.60	0.6	7.13		
						15.34		
	Cum					15.34	6407.70	98268.49

RB 15.1.4 – do – Providing ruled pointing to coursed stone masonry h cement mortar 1:4, 20mm deep, after raking joints to depth of mm nicely lining, including cost of materials, labour, curing mplete as per specifications. (P W D BCSR 2018-19, P-115 I-15.4)

W D BCSR 2018-19, P-115 I-15.4)								
asic Rate:					140.00			
dd area weight age 6% as per PWD- SR Note					8.40			
otal item Rate					148.40			
vacant land at waste wier		1	75.00	0.00	0.6	45.00		
Chainlink fencing collpsed portion at lake boundry		1	65.00	0.00	0.6	39.00		
Total						84.00		
	Sqm					84.00	148.40	12465.60

Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer- in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) including cost of Materials, labour, HOM complete as per specification.

7

PWD BCSR 2018-19, page 266 item 37.2								
Basic Rate:					859.00			
Add area weight age 6% as per PWD- SR Note					51.54			
Total item Rate					910.54			
vacant land at waste wier		38			2.7	102.60		
Chainlink fencing collpsed portion at lake boundry		33			2.7	89.10		
Total						191.70		
	Rmt					191.70	910.54	174550.52

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cription Of Work	Unit	No	L	B	D	Qty	Rate	Amount
ding chain link fencing 50mm size of 8 gauge properly stretched een rectangular poles and fixed with suitable bolts & nuts, the free shall be welded to the pole and block pipe at top and bottom as ired including cost of all materials, labour, lead and lifts and as per directions of the Engineer-in-charge of work including two coats of roved quality paint over one coat of shop paint, including cost of erials, labour, HOM complete as per specification.								
/D BCSR 2018-19, page 266 item 37.3								
sic Rate:					715.00			
d area weight age 6% as per PWD- SR Note					42.90			
tal item Rate					757.90			
cant land at waste wier			75.00		2.00	150.00		
hainlink fencing collpsed ortion at lake boundry			65.00		2.00	130.00		
otal						**280.00**		
	Sqm					**280.00**	**757.90**	**212212.00**
Providing and fixing M.S. Block pipe of 38mm dia, of heavy gauge of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two vertical poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by `the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint including cost of Materials, labour, HOM complete as per specification.								
PWD BCSR 2018-19, page 266 item 37.4								
Basic Rate:					408.00			
Add area weight age 6% as per PWD- SR Note					24.48			
Total item Rate					432.48			
vacant land at waste wier		3	75.00			225.00		
Chainlink fencing collpsed portion at lake boundry		2	65.00			130.00		
Deduct for Pole width		71	-0.065			-4.62		
Total						**350.39**		
	Rmt					**350.39**	**432.48**	**151534.50**
							SUB-TOTAL	**16,06,884.33**
10	**Works contract GST 12%** as per 2018-19 PWD BC SR Note.5 as per Govt Letter No.PWD 65 RDF							**1,92,826.12**
							GRAND-TOTAL	**17,99,710.45**

Total (Rupees Ninety Nine Lakhs Only)

CERTIFICATE:-

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2) The work proposed in this estimate is not included in any other scheme.
3) The provision were made in this estimate are necessary essential and adequate to execute the work
4) The above work location is coming under jurisdiction of BBMP limit.

Environmental Engineer, 21/5/2020
Lakes Division BBMP

Assistant Executive Engineer, 21/5/2020
Lakes Division BBMP

Executive Engineer-4 21/5/20

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER-4, LAKES DIVISION

Detailed Estimate

Rates as per PWD BCSR & MI BCSR 2018-19

f Work : Construction of Gazebo, Watchmen Shed, Pathway ement, Child Play Equipment and other development work ommasandra lake ward No.10

ion made in estimate:

IWAY IMPROVEMENT

	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	SRRB M300-59.2. Loosening, levelling and compacting original round supporting embankment to facilitate placement of first ayer of embankment / subgrade, scarified to a depth of 150mm, nixed with water at OMC and then compacted by rolling so as to chieve minimum dry density as given in Table 300-2 for embankment / subgrade including HOM construction, labour etc.. complete as per specifications.								
	(PWD BCSR 2018-19, P-147, I-19.66)								
	Basic Rate:					23.00			
	Add area weight age 6% as per PWD- SR Note					1.38			
	Total item Rate					24.38			
	WALK-WAY		1	430.00	6.00	3	7740.00		
	Total						**7740.00**		
		Cum					**7740.00**	**24.38**	**188701.20**
2	**Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1in ordinary soil.**								
	(PWD BCSR 2018-19,P-6,I-2.1)								
	Basic Rate:					249.00			
	Add area weight age 6% as per PWD- SR Note					14.94			
	Total item Rate					263.94			
			2	430.00	0.25	0.3	64.50		
	Total						**64.50**		
		Cum					**64.50**	**263.94**	**17024.13**

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ription Of Work	Unit	No	L	B	D	Qty	Rate	Amount
3 4-1.6 ; Providing and laying in position plain cement rete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down graded granite metal coarse aggregates @ 0.878 cum and fine egtes @ 0.53cum, machine mixed, concrete laid in layers not eeding 15 cms. thick, well compacted, in foundation, plinth and s, including cost of all materials, labour, HOM curing complete per specifications.								
D BCSR 208-19, P-13 I-4.6)								
ic Rate:					5422.00			
l area weight age 6% as per PWD- SR Note					325.32			
al item Rate					5747.32			
		2	430.00	0.20	0.12	20.64		
tal						**20.64**		
	Cum					**20.64**	**5747.32**	**118624.68**
oviding and fixing Pre cast solid concrete kerb stones made out CC 1:2:4 and finished with CM 1:3 plastering and finishing itting etc., complete. 450X200X400								
WD BCSR 208-19, P-27 I-5.29.1)								
asic Rate:					450.00			
dd area weight age 6% as per PWD- SR Note					27.00			
otal item Rate					477.00			
		4	430.00			1720.00		
LENGHT /0.45)						3823.00		
Total						**3823.00**		
	Nos					**3791.00**	**477.00**	**1808307.00**
KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification.								
(P W D BCSR 2018-19, P-7 I-2.10)								
Basic Rate:					201.00			
Add area weight age 6% as per PWD- SR Note					12.06			
Total item Rate					213.06			
Along kerb backfill		2	430.00	0.40	0.3	103.20		
Total						**103.20**		
	Cum					**103.20**	**213.06**	**21987.79**

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cription Of Work	Unit	No	L	B	D	Qty	Rate	Amount
B 15-20.1 : Providing and applying floor painting with ready paint in two coats (excluding priming coat) on new concrete / estos cement sheet / plastered surfaces brushing to give an n shade after preparing the surface after thoroughly cleaning dirt, dust other foreign matter, including cost of materials, our, complete as per specification								
W D BCSR 2018-19, P-124 I-15.83)								
sic Rate:						71.00		
ld area weight age 6% as per PWD- SR Note						4.26		
otal item Rate						75.26		
		4	430.00			0.45	774.00	
							774.00	
otal	**Sqm**						**774.00**	**75.26**	**58251.24**
Providing casing embankment using semi-pervious soil from approved borrow areas in layers of 250 to 300 mm before compaction including cost of all materials, machinery, labour, all other operations such as excavation, sorting out, transportation, spreading soil to specified thickness, breaking clods, sectioning, watering, compacting to density control of not less than 95 percent using power roller etc., complete with initial lead all lifts.								
(MI BCSR 2018-19.P-36,I-2.36)								
Basic Rate:						222.00		
Add area weight age 6% as per PWD- SR Note						13.32		
Total item Rate						235.32		
		2	430.00	2.80		0.20	481.60	
Total							**481.60**	
	Cum						**481.60**	**235.32**	**113330.11**
								SUB-TOTAL	**23,26,226.16**
Works contract GST 12% as per 2018-19 PWD BC SR Note.5 as per Govt Letter No.PWD 65 RDF 2017, Dated 11-10-2018									**2,79,147.14**
								GRAND-TOTAL	**26,05,373.30**
Total (Rupees Ninety Nine Lakhs Only)									

CERTIFICATE:-

1) This work spot has been inspected and the work is found to be necessary.
2) The work proposed in this estimate is not included in any other scheme.
3) The provision were made in this estimate are necessary essential and adequate to execute the
4) The above work location is coming under jurisdiction of BBMP limit.

Environmental Engineer,
Lakes Division BBMP

Assistant Executive Engineer,
Lakes Division BBMP

Executive Engineer-4,
Lakes Division BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER-4, LAKES DIVISION

Detailed Estimate

Rates as per PWD BCSR & MI BCSR 2018-19

Work : Construction of Gazebo, Watchmen Shed, Pathway ement, Child Play Equipment and other development work ommasandra lake ward No.10

on made in estimate:

TANK

scription Of Work	Unit	No	L	B	D	Qty	Rate	Amount
RB 2-2 : Earthwork excavation by manual means for ndation of buildings, water supply and sanitary lines and electrical nduits etc, either in pits or in trenches 1.5m and above in width, soil not exceeding 1.5 m. in depth including dressing the ttom and sides of pits and trenches, stacking the excavated soil ar from edges of excavation with lead upto 50 m. including eaking of clods complete as per specifications.								
WD BCSR 2018-19,page 6 item 2.3								
asic Rate:					299.00			
dd area weight age 6% as per PWD- SR Note					17.94			
otal item Rate					316.94			
		1	2.80	2.55	1.75	12.50		
otal						**12.50**		
	Cum					**12.50**	**316.94**	**3960.17**
Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.								
PWD BCSR 2018-19,page 13 item 4.2								
Basic Rate:					5194.00			
Add area weight age 6% as per PWD- SR Note					311.64			
Total item Rate					5505.64			
		1	2.80	2.55	0.15	1.07		
Total						**1.07**		
	Cum					**1.07**	**5505.64**	**5896.54**

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ption Of Work	Unit	No	L	B	D	Qty	Rate	Amount
ing and laying in position reinforced cement concrete of design 25 with OPC cement @ 340kgs, with 20mm and down size d granite metal coarse aggregates @0.70cum and fine aggregtes @ um, with superplastisiser @3lts confirming to IS9103-1999 irmed-2008, machine mixed, concrete laid in layers not eding 15 cms thick, vibrated for all works in foundation plinth ground floor level for roof slabs, staircase, lintles, retaining walls, rn walls, walls (any thickness) including attached plasters, mns, piers, abutments, pillars, posts, struts, buttresses, string or ng courses, parapets, coping, bed blocks, anchor blocks, plain dow cills, fillets etc., including cost of all materials, labour, HOM of chinery, curing, complete as per specifications								
WD BCSR 2018-19,page 14 item 4.12								
sic Rate:						6045.00		
ld area weight age 6% as per PWD- SR Note						362.70		
otal item Rate						6407.70		
or Bottom slab		1.00	2.80	2.55	0.15	1.07		
For Retaining wall		2.00	2.50	0.15	1.50	1.13		
For Retaining wall		2.00	1.95	0.15	1.50	0.88		
Top slab		1.00	2.50	2.25	0.15	0.84		
						3.92		
Deductions(cover)		1.00	0.60	0.60	0.15	0.05		
Total	**Cum**					**3.86**	**6407.70**	**24754.55**
Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thicknes including cost of all materials, labour complete as per specifications and direction of the Engineer in charge.								
PWD BCSR 2018-19,page 16 Item No. 4.31								
Basic Rate:						358.00		
Add area weight age 6% as per PWD- SR Note						21.48		
Total item Rate						379.48		
Sump Tank Side Walls(2.5+2.25)		2	4.75		1.5	14.25		
(2.2+1.95)		2	4.15		1.5	12.45		
Total						**26.70**		
	Sqm					**26.70**	**379.48**	**10132.12**

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Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs landings balconies and likes thickness above 200 mm including cost of all materials labour complete as per specifications upto 3.50 m from Ground level								
PWD BCSR 2018-19,page 16 Item No. 4.30								
Basic Rate:						440.00		
Add area weight age 6% as per PWD- SR Note						26.40		
Total item Rate						466.40		
Roof Slab		1	2.20	1.95		4.29		
Total						**4.29**		
	Sqm					**4.29**	**466.40**	**2000.86**
KSRB 4.9.2 Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.								
PWD BCSR 2018-19,page 18 item 4.46.2								
Basic Rate:						70966.00		
Add area weight age 6% as per PWD- SR Note						4257.96		
Total item Rate						75223.96		
115Kgs/cum		(3.86x100)				0.39		
Total						**0.39**		
	MT					**0.39**	**75223.96**	**29060.90**
7 **Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, including Providing and removing scaffolding, including cost of materials, labour, lead, lift, curing curing complete as per specification and Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:3, 12mm thick cost of materials complete as per specifications.**								
PWD BCSR 2018-19,page 116 item 15.21								
Basic Rate:						235.00		
Add area weight age 6% as per PWD- SR Note						14.10		
Total item Rate						249.10		
Bottom		1	2.2	1.95		4.29		
Ceiling		1	2.2	1.95		4.29		
Total						**8.58**		
	Cum					**8.58**	**249.10**	**2137.28**

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Providing 20mm thick cement plaster in single coat with cement mortar, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification. cement mortar 1:3								
	PWD BCSR 2018-19,page 116 item 15.18								
	Basic Rate:					=	289.00		
	Add area weight age 6% as per PWD- SR Note					=	17.34		
	Total item Rate					=	306.34		
	side walls		2	2.2		1.5	6.60		
	Deduct for Pole width		2	1.95		1.5	5.85		
	Total						**12.45**		
		Cum					**12.45**	**306.34**	**3813.93**
	Extra for providing and mixing waterproofing compound in cement plaster for stone masonry work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:4, 20mm thick cost of materials complete as per specifications.								
	PWD BCSR 2018-19,page 116 item 15.27								
	Basic Rate:						9.00		
	Add area weight age 6% as per PWD- SR Note						0.54		
	Total item Rate						9.54		
							21.03		
	Total						**21.03**		
		Sqm					**21.03**	**9.54**	**200.63**
	MS Sheet 20 Gauge for Sump Tank Cover								
	Page No. IX SL No.212								
	Basic Rate:						35.59		
	Add area weight age 6% as per PWD- SR Note						2.14		
10	Total item Rate						37.73		
							30.00		
							15.00		
	Total						**45.00**		
		Kg					**45.00**	**37.73**	**1697.64**
	Providing 20mm square M.S.Footrest and fixing in manhole with 1:3:6 cement concrete block of 20x20x10 cms using 20mm an ddown size metal of size including cost of materials, labour charges, curing complete as per specifications.								
	PWD BCSR 2018-19,page75 item 11.44								
11	Basic Rate:						276.00		
	Add area weight age 6% as per PWD- SR Note						16.56		
	Total item Rate						292.56		
			2				2.00		
	Total						**2.00**		
		Nos					**2.00**	**292.56**	**585.12**

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Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
Transportation of excavated earth by mechanical means including loading and unloading with a lead of 20 kmtr and dispersing the same as directed.								
S.R.page 136 item 17.1 & 17.4								
Basic Rate:					109.00			
Add area weight age 6% as per PWD- SR Note					6.54			
Total item Rate					115.54			
Add: Bulking Charge @ 1.3%		57.00				6.25		
Loading and unloading (density of debris 1.30 for 20kms =20x2.00x1.30		52.00						
Total Rate		**109.00**						
Total						**6.25**		
	Cum					**6.25**	**115.54**	**722.13**
							SUB-TOTAL	**84,961.85**
Works contract GST 12% as per 2018-19 PWD BC SR Note.5 as per Govt Letter No.PWD 65 RDF 2017, Dated 11-10-2018								**10,195.42**
							GRAND-TOTAL	**95,157.27**
Total (Rupees Ninety Nine Lakhs Only)								

CERTIFICATE:-

1) This work spot has been inspected and the work is found to be necessary.
2) The work proposed in this estimate is not included in any other scheme.
3) The provision were made in this estimate are necessary essential and adequate to execute the work as per site
4) The above work location is coming under jurisdiction of BBMP limit.

21/5/2020
Environmental Engineer,
Lakes Division BBMP

21/5/2020
Assistant Executive Engineer,
Lakes Division BBMP

21/5/20
Executive Engineer-4,
Lakes Division BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER-4, LAKES DIVISION

Detailed Estimate

Rates as per PWD & MI BCSR 2018-19

e of Work : Construction of Gazebo, Watchmen Shed, Pathway ovement, Child Play Equipment and other development work labommasandra lake ward No.10

ision made in estimate:

ATCHMEN SHED WITH TOILET

Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications.ordinary soil								
PWD BCSR 2018-19, page 6 item 2.1								
Basic Rate:					249.00			
Add area weight age 6% as per PWD- SR Note					14.94			
Total item Rate					263.94			
Long wall		1	14.43	1	1.2	17.32		
		1	11.8	1	1.2	14.16		
short wall		3	4.59	1	1.2	16.52		
Toilet		2	1.63	1	1.2	3.91		
		1	4.62	1	1.2	5.54		
		1	1.85	0.6	0.6	0.67		
		1	0.65	0.6	0.6	0.23		
Total						**58.36**		
	Cum					**58.36**	**263.94**	**15402.48**
Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.								
PWD BCSR 2018-19,page 7 item 2.10								
Basic Rate:					201.00			
Add area weight age 6% as per PWD- SR Note					12.06			
Total item Rate					213.06			
Basement		2	4.93	5.11	0.5	25.19		
		1	2.18	1.28	0.5	1.40		
		2	0.89	0.79	0.5	0.70		
		1	0.97	1.89	0.5	0.92		
Long outer wall		2	11	0.3	0.75	4.95		
		2	2.63	0.3	0.75	1.18		
		1	4.35	0.3	0.75	0.98		
		1	5.79	0.3	0.75	1.30		
Total						**36.62**		
	cum					**36.62**	**213.06**	**7802.74**

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Providing and Filling in foundation with granite / trap broken metal 100mm. nd down size & with approved sand including hand packing, ramming, vatering, including cost of all materials and labour with all lead and lift. omplete as per specifications.								
	PWD BCSR 2018-19, page 7 item 2.15								
	Basic Rate:					2429.00			
	Add area weight age 6% as per PWD- SR Note					145.74			
	Total item Rate					2574.74			
	Long wall		1	14.43	1	0.2	2.89		
			1	11.8	1	0.2	2.36		
	short wall		3	4.59	1	0.2	2.75		
	Toilet		2	1.63	1	0.2	0.65		
			1	4.62	1	0.2	0.92		
	Total						**9.58**		
		Cum					**9.58**	**2574.74**	**24655.71**
	Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintles, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.								
	PWD BCSR 2018-19,Page no 14, item no 4.12								
	Basic Rate:					6045.00			
	Add area weight age 6% as per PWD- SR Note					362.70			
	Total item Rate					6407.70			
	For Roof		1	13.63	5.79	0.15	11.84		
	Total						**11.84**		
		cum					**11.84**	**6407.70**	**75852.14**
5	**Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels, and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets excluding cost of reinforcement as per specification**								
	PWD BCSR 2018-19, page 14 item 4.13								
	Basic Rate:					5892.00			
	Add area weight age 6% as per PWD- SR Note					353.52			
	Total item Rate					6245.52			
			1	13.63	0.23	0.15	0.47		
			1	11	0.23	0.15	0.38		
			2	5.33	0.23	0.15	0.37		
			1	4.35	0.23	0.15	0.15		
			2	2.4	0.23	0.15	0.17		
			1	2.1	0.1	0.15	0.03		
	Total		1	1.1	0.1	0.15	0.02		
							1.58		
		cum					**1.58**	**6245.52**	**9875.29**

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Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
roviding and laying in position reinforced cement concrete of design Mix 120 with OPC @ 24kgs, with 12mm and down size graded granite metal oarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with uperplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM finishing, curing, complete but excluding cost of reinforcement as per specifications.								
PWD BCSR 2018-19, Page no 15, item no 4.19								
Basic Rate:					440.00			
Add area weight age 6% as per PWD- SR Note					26.40			
Total item Rate					466.40			
For chajja		2	1.2	0.6		1.44		
		2	1.7	0.6		2.04		
		4	1.4	0.6		3.36		
		2	0.95	0.6		1.14		
		2	0.7	0.6		0.84		
Total						**8.82**		
	Sqm					**8.82**	**466.40**	**4113.65**
Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per Specification.								
PWD BCSR 2018-19, Page no 16 item no 4.30								
Basic Rate:					440.00			
Add area weight age 6% as per PWD- SR Note					26.40			
Total item Rate					466.40			
		2	5.15	5.33		54.90		
		1	2.4	1.5		3.60		
		2	1.1	1		2.20		
		1	1.18	2.11		2.49		
		1	1.44	2.63		3.79		
Total						**66.98**		
	Sqm					**66.98**	**466.40**	**31237.61**

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth, cills and string courses cost of all materials, labour complete as per specifications.								
	PWD BCSR 2018-19, Page no 16, item no 4.31								
	Basic Rate:					358.00			
	Add area weight age 6% as per PWD- SR Note					21.48			
	Total item Rate					379.48			
			2	13.88		0.15	4.16		
			2	11.25		0.15	3.38		
			6	5.14		0.15	4.63		
			4	2.18		0.15	1.31		
			2	4.34		0.15	1.30		
			2	1.85		0.15	0.56		
	Total		2	0.8		0.15	0.24		
		Sqm					**15.57**		
							15.57	**379.48**	**5908.50**
9	**Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications.**								
	PWD BCSR 2018-19,Page no 17 item no 4.34								
	Basic Rate:					292.00			
	Add area weight age 6% as per PWD- SR Note					17.52			
	Total item Rate					309.52			
	(0.15+0.23+0.15)		1	13.63	0.53		7.22		
	Lintel		1	11	0.53		5.83		
			2	5.33	0.53		5.65		
			1	4.35	0.53		2.31		
			2	2.4	0.53		2.54		
			1	2.1	0.53		1.11		
			1	1.1	0.53		0.58		
	Total						**25.25**		
		Sqm					**25.25**	**309.52**	**7815.13**
10	**Providing and removing centering, shuttering, strutting, propping & removal of form work etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications.**								
	PWD BCSR 2018-19, Page no 17 item no 4.36								
	Basic Rate:					755.00			
	Add area weight age 6% as per PWD- SR Note					45.30			
	Total item Rate					800.30			
			2	13.63	0.15		4.09		
			2	5.79	0.15		1.74		
	Total						**5.83**		
		Sqm					**5.83**	**800.30**	**4662.55**

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for chajja, corbels etc., including edges including cost of all materials, labour complete as per specifications.								
	PWD BCSR 2018-19,Page no 17 item no 4.37								
	Basic Rate:					323.00			
	Add area weight age 6% as per PWD- SR Note					19.38			
	Total item Rate					342.38			
	For chajja		2	1.2	0.6		1.44		
			2	1.7	0.6		2.04		
			4	1.4	0.6		3.36		
			2	0.95	0.6		1.14		
			2	0.7	0.6		0.84		
	Total						**8.82**		
		Sqm					**8.82**	**342.38**	**3019.79**
2	**Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.TMT bars Fe 500**								
	PWD BCSR 2018-19, Page no 18 item no 4.46								
	Basic Rate:					70966.00			
	Add area weight age 6% as per PWD- SR Note					4257.96			
	Total item Rate					75223.96			
	lintel (As per Item No 5)						1.58		
	chejja (As per Item No 6)						0.88		
	roof (As per Item No 4)						11.84		
							14.30		
	Qty of steel taken @ 90kg/cum						1287.08		
	Total						**1.29**		
		MT					**1.29**	**75223.96**	**96818.89**
13	**Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.**								
	PWD BCSR 2018-19, page 13 item 4.6								
	Basic Rate:					5422.00			
	Add area weight age 6% as per PWD- SR Note					325.32			
	Total item Rate					5747.32			
			1	13.88	0.45	0.15	0.94		
			1	11.25	0.45	0.15	0.76		
			3	5.14	0.45	0.15	1.04		
			2	2.18	0.45	0.15	0.29		
			1	4.34	0.45	0.15	0.29		
			1	1.85	0.3	0.15	0.08		
			1	0.8	0.3	0.15	0.04		
	Total						**3.44**		
		Cum					**3.44**	**5747.32**	**19791.61**

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Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and sills, including cost of all materials, labour, HOM curing complete as per specifications.								
PWD BCSR 2018-19, page 13 item 4.7								
Basic Rate:					5309.00			
Add area weight age 6% as per PWD- SR Note					318.54			
Total item Rate					5627.54			
		1	14.43	1	0.1	1.44		
		1	11.8	1	0.1	1.18		
		3	4.59	1	0.1	1.38		
		2	1.63	1	0.1	0.33		
		1	4.62	1	0.1	0.46		
		1	1.85	0.6	0.1	0.11		
		1	0.65	0.6	0.1	0.04		
Total						**4.94**		
	Cum					**4.94**	**5627.54**	**27788.79**
Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications.cement mortar 1:6								
PWD BCSR 2018-19, page 25 item 5.6								
Basic Rate:					4596.00			
Add area weight age 6% as per PWD- SR Note					275.76			
Total item Rate					4871.76			
15		1	14.18	0.75	0.45	4.79		
		1	14.03	0.6	0.45	3.79		
		1	11.55	0.75	0.45	3.90		
		1	11.4	0.6	0.45	3.08		
		3	4.84	0.75	0.45	4.90		
		3	4.99	0.6	0.45	4.04		
		2	1.88	0.75	0.45	1.27		
		2	2.03	0.6	0.45	1.10		
		1	4.49	0.75	0.45	1.52		
		1	4.42	0.6	0.45	1.19		
Total						**29.57**		
	Cum					**29.57**	**4871.76**	**144040.16**
Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications								
PWD BCSR 2018-19, page 25 item 5.9								
Basic Rate:					5483.00			
Add area weight age 6% as per PWD- SR Note					328.98			
16 Total item Rate					5811.98			
		1	13.88	0.45	0.45	2.81		
		1	11.25	0.45	0.45	2.28		
		3	5.14	0.45	0.45	3.12		
		2	2.18	0.45	0.45	0.88		
		1	4.34	0.45	0.45	0.88		
		1	1.85	0.3	0.45	0.25		
		1	0.8	0.3	0.45	0.11		
Total						**10.33**		
	Cum					**10.33**	**5811.98**	**60042.84**

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Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
onstruction of partition wall 10 cms thick with table moulded modular burnt icks of class designation 5.0 Newton per sqmm with cement mortar 1:4 cluding cost of materials, labour charges, scaffolding, curing complete as er specifications.								
PWD BCSR 2018-19, page 31 item 6.30								
Basic Rate:					786.00			
Add area weight age 6% as per PWD- SR Note					47.16			
Total item Rate					833.16			
		1	2.4		3	7.20		
		1	2.1		3	6.30		
		1	1.1		3	3.30		
						16.80		
Deduction								
Door D1		2	1		2.1	4.20		
lintel		2	0.75		0.15	0.23		
V		1	1.1		0.15	0.17		
						4.59		
Total						**12.21**		
	Sqm					**12.21**	**833.16**	**10172.88**
Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 5.0Newton per sqmm (table moulded) with cement mortar 1:8 for basement and superstructu/re including cost of materials, labour charges, scaffolding, curing complete as per specifications.with cement mortar 1:6								
PWD BCSR 2018-19, page 29 item 6.6								
Basic Rate:					6709.00			
Add area weight age 6% as per PWD- SR Note					402.54			
Total item Rate					7111.54			
long wall		1	13.63	0.23	3	9.40		
		1	11	0.23	3	7.59		
Short wall		3	5.33	0.23	3	11.03		
Toilet		1	4.35	0.23	3	3.00		
		2	2.4	0.2	3	2.88		
						33.91		
Deduction								
Door D		2	1	0.23	2.1	0.97		
D1		2	0.75	0.23	2.1	0.72		
Window W		2	1.5	0.23	1.35	0.93		
W1		4	1.2	0.23	1.35	1.49		
W2		1	0.75	0.23	0.6	0.10		
V		2	0.6	0.23	0.6	0.17		
Lintel		1	13.63	0.23	0.15	0.47		
		1	11	0.23	0.15	0.38		
		2	5.33	0.23	0.15	0.37		
		1	4.35	0.23	0.15	0.15		
		2	2.4	0.23	0.15	0.17		
						5.91		
Total						**27.99**		
	Cum					**27.99**	**7111.54**	**199084.86**

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	BSR 7.8 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28kg/m all duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows, not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and grinded electrically subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour charges and HOM complete as per specifications.								
	PWD BCSR 2018-19, Page no 34 item no 7.8								
	Basic Rate:						3328.00		
	Add area weight age 6% as per PWD- SR Note						199.68		
	Total Item Rate						3527.68		
			2	1.5	1.35		4.05		
			4	1.2	1.35		6.48		
			1	0.75	0.6		0.45		
			2	0.6	0.6		0.72		
	Total						**11.70**		
		Cum					**11.70**	**3527.68**	**41273.86**
	Providing and fixing M.S.grill work for windows and ventilators using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM complete as per specifications.								
	PWD BCSR 2018-19, Page no 34 item no 7.9								
	Basic Rate:						95.00		
	Add area weight age 6% as per PWD- SR Note						5.70		
20	Total item Rate						100.70		
			2	1.5	1.35		4.05		
			4	1.2	1.35		6.48		
			1	0.75	0.6		0.45		
			2	0.6	0.6		0.72		
	As Per Item No 17						11.70		
	21kg/Sqm						245.70		
	Total						**245.70**		
		Kg					**245.70**	**100.70**	**24741.99**
	Providing wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM complete as per specifications.Mathi / Nandi wood frames								
	PWD BCSR 2018-19,page 53 item 9.12								
	Basic Rate:						73196.00		
21	Add area weight age 6% as per PWD- SR Note						4391.76		
	Total item Rate						77587.76		
	D(2x2)		4	0.1	0.125	1.15	0.06		
			4	0.1	0.125	2.1	0.11		
	D1		4	0.1	0.125	0.9	0.05		

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for styles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form styles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame,Sealed to the styles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm. Aluminium hinges. to do both sides prelam.								
	PWD BCSR 2018-19,Page no 61 item no 9.85.1								
	Basic Rate:						3746.00		
	Add area weight age 6% as per PWD- SR Note						224.76		
	Total item Rate						3970.76		
			3	0.75	2.1		4.73		
	Total						**4.73**		
		Sqm					**4.73**	**3970.76**	**18761.84**
26	**Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications.Ceramic Tiles of size 30x30cms 6mm thick**								
	PWD BCSR 2018-19,page 108 item No.14.36.2								
	Basic Rate:						1210.00		
	Add area weight age 6% as per PWD- SR Note						72.60		
	Total item Rate						1282.60		
			1	2.4	1.5		3.60		
			2	1.1	1		2.20		
			1	1.18	2.11		2.49		
	Total						**8.29**		
		Sqm					**8.29**	**1282.60**	**10632.50**
27	**Providing skirting, dadoing, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.Colour glazed tiles 30x45 cms 6mm thick with border of size 30 x 10**								
	PWD BCSR 2018-19,page 108 item No.14.41.3								
	Basic Rate: =						1275.00		
	Add area weight age 6% as per PWD- SR Note =						76.50		
	Total item Rate =						1351.50		
	Bath		2	2.4	2.1		10.08		
			2	1.5	2.1		6.30		
	WC		4	1.1	1.5		6.60		
			4	1	1.5		6.00		
	Passage		2	1.18	1.5		3.54		
			2	2.11	1.5		6.33		
							38.85		
	Deduction D		1	0.75	2.1		1.58		
			3	0.75	1.5		3.38		
							4.95		
	Total						**33.90**		
		Sqm					**33.90**	**1351.50**	**45815.85**

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers and required interval and removing stains, including cost of all mateirals, mortar, labour, etc., Complete as per specification.								
	PWD BCSR 2018-19,page 109 item No.14.45								
	Basic Rate:						976.00		
	Add area weight age 6% as per PWD- SR Note						58.56		
	Total item Rate						1034.56		
	room		2	5.15	5.33		54.90		
	skirting		4	5.15	0.12		2.47		
			4	5.33	0.12		2.56		
							59.93		
	Total	**Sqm**					**59.93**	**1034.56**	**62000.56**
29	**Providing ruled pointing 20 mm deep to coursed stone masonry with cement mortar after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.**								
	PWD BCSR 2018-19,page 115 item No.15.4								
	Basic Rate:						140.00		
	Add area weight age 6% as per PWD- SR Note						8.40		
	Total item Rate						148.40		
			1	13.63	0.45		6.13		
			1	11	0.45		4.95		
			1	5.79	0.45		2.61		
			1	4.35	0.45		1.96		
			1	1.44	0.45		0.65		
							16.29		
	Total	**Sqm**					**16.29**	**148.40**	**2418.10**
30	**Providing 15mm thick cement plaster in single coat with cement mortar 1:4 to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.**								
	PWD BCSR 2018-19,page115 item No.15.13								
	Basic Rate:						221.00		
	Add area weight age 6% as per PWD- SR Note						13.26		
	Total item Rate						234.26		
	Room (2x2)		4	5.15	3		61.80		
			4	5.33	3		63.96		
	Toilet		2	2.4	3		14.40		
			2	1.5	3		9.00		
	WC(2x2)		4	1.1	3		13.20		
			4	1	3		12.00		
	Passage		2	1.18	3		7.08		
			2	2.11	3		12.66		
							194.10		
	Deduction								
	door		3	0.75	2.1		4.73		
			2	1	2.1		4.20		
			1	0.75	2.1		1.58		
	window		2	1.5	1.35		4.05		
			4	1.2	1.35		6.48		

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Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
		1	0.75	0.6		0.45		
		2	0.6	0.6		0.72		
						22.20		
Total	Sqm					171.90		
						171.90	234.26	40269.29

Providing 18mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.in CM 1:6

PWD BCSR 2018-19,page116 item No.15.17								
Basic Rate:					245.00			
Add area weight age 6% as per PWD- SR Note					14.70			
Total item Rate					259.70			
		1	13.63	3.15		42.93		
		1	11	3.15		34.65		
		1	5.79	3.15		18.24		
		1	4.35	3.15		13.70		
		1	2.63	3.15		8.28		
		1	1.44	3.15		4.54		
Total						122.35		
	Sqm					122.35	259.70	31773.26

32 **Providing 12mm thick cement plaster in single coat with cement mortar, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification. cement mortar 1:3**

PWD BCSR 2018-19,page116 item No.15.21								
Basic Rate:					235.00			
Add area weight age 6% as per PWD- SR Note					14.10			
Total item Rate					249.10			
Room		2	5.15	5.33		54.90		
Toilet		1	2.4	1.5		3.60		
WC		2	1.1	1		2.20		
Passage		1	1.18	2.11		2.49		
		1	1.44	2.63		3.79		
Total						66.98		
	Sqm					66.98	249.10	16683.72

33 **Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.with primer**

S.R.page 119 item No.15.51.2					90.00			
Basic Rate:					5.40			
Add area weight age 6% as per PWD- SR Note					95.40			
Total item Rate						200.03		
As per item no. 39						200.03		
Total						200.03	95.40	19082.48
	Sqm							

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Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount

...ing and finishing external walls in two coats with waterproof cement ... approved brand and shade to give an even shade after throughly ... the surface to remove all dirt ... powdered material, free from mortar drops and other foreign matter ... materials, labour, complete as per specifications with primer

PWD BCSR 2018-19 page 120 item No.15.53.2								
Basic Rate:								
Add area weight age 6% as per PWD- SR Note					102.00			
					6.12			
Total item Rate					108.12			
Qty vide no.21								
						122.35		
Total						122.35		
	Sum					122.35	108.12	13228.05

Applying priming coat over new wood surface and // or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.

PWD BCSR 2018-19 page 121 item No.15.58								
Basic Rate:								
Add area weight age 6% as per PWD- SR Note					50.00			
Total item Rate					3.00			
					53.00			
D2	D	4	1.00	2.10		8.40		
	D1	4	0.75	2.10		6.30		
Total						14.70		
	Sum					14.70	53.00	779.10

Providing and applying painting two coats (excluding priming coat) on new wood surface and // or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour,
complete as per specifications.

PWD BCSR 2018-19 page 121 item No.15.60.1								
Basic Rate:					97.00			
Add area weight age 6% as per PWD- SR Note					5.82			
Total item Rate					102.82			
(2nd)	D	4	1	2.1		8.40		
	D1	4	0.75	2.1		6.30		
Total						14.70		
	Sum					14.70	102.82	1511.45

Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials,
labour, complete as per specifications.

PWD BCSR 2018-19 page 123 item No.15.73								
Basic Rate:					41.00			
Add area weight age 6% as per PWD- SR Note					2.46			
Total item Rate					43.46			
		2	1.5	1.35		4.05		
		4	1.2	1.35		6.48		
		1	0.75	0.6		0.45		
		2	0.6	0.6		0.72		
Total						11.70		
	Sum					11.70	43.46	508.48

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.								
	PWD BCSR 2018-19,page 123 item No.15.74								
	Basic Rate:						95.00		
	Add area weight age 6% as per PWD- SR Note						5.70		
	Total item Rate						100.70		
	Qty vide no.7							11.70	
	Total	Sqm						**11.70**	
								11.70	**100.70**	**1178.19**
	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. **Area to be considered -** **(a) 100% for fresh surface** **(b) Upto 10 % for repainting**								
	PWD BCSR 2018-19,page 128 item No.15.106								
	Basic Rate:						78.00		
	Add area weight age 6% as per PWD- SR Note						4.68		
	Total item Rate						82.68		
	Quantity vide no.30 & 32							238.88	
	(171.90+66.98)								
	Deduction								
	Bath		2	2.4	2.1			10.08	
			2	1.5	2.1			6.30	
	WC		4	1.1	1.5			6.60	
			4	1	1.5			6.00	
	Passage		2	1.18	1.5			3.54	
			2	2.11	1.5			6.33	
								38.85	
	Total							**200.03**	
		Sqm						**200.03**	**82.68**	**16538.15**
	Miscellaneous								
40	Providing & fixing of Door locking arrangements (xv item no.392)	Nos	3				3.00	**550.85**	**1652.55**
41	Providing & fixing of Handles pwder coated 150mm(Page XV item 388)	Nos	6				6.00	**50.85**	**305.10**
42	Hinges 5" heavy duty	Nos	12				12.00	**31.36**	**376.32**
43	Tower bolt 300mm Long	Nos	6				6.00	**101.69**	**610.14**

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	TERRACE								
	Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 5.0Newton per sqmm (machine moulded) with cement mortar 1:8 for basement and superstructu/re including cost of materials, labour charges, scaffolding, curing complete as per specifications.with cement mortar 1:6								
	PWD BCSR 2018-19, page 29 item 6.6								
	Basic Rate:						6709.00		
	Add area weight age 6% as per PWD- SR Note						402.54		
	Total item Rate						7111.54		
	long wall		1	13.63	0.23	1	3.13		
			1	11	0.23	1	2.53		
	Short wall		3	5.33	0.23	1	3.68		
	Toilet		1	4.35	0.23	1	1.00		
			1	2.4	0.23	1	0.55		
			1	1.44	0.23	1	0.33		
	Total						**11.23**		
		Cum					**11.23**	**7111.54**	**79836.28**
	Providing 18mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.in CM 1;6								
	PWD BCSR 2018-19,page116 item No.15.17								
	Basic Rate:						245.00		
	Add area weight age 6% as per PWD- SR Note						14.70		
	Total item Rate						259.70		
45	(1.00+0.23+1.00) long wall		1	13.63	2.23		30.39		
			1	11	2.23		24.53		
	Short wall		3	5.33	2.23		35.66		
	Toilet		1	4.35	2.23		9.70		
			1	2.4	2.23		5.35		
			1	1.44	2.23		3.21		
	Total						**108.85**		
		Sqm					**108.85**	**259.70**	**28267.38**
46	**Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application.(a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height includingrounding off junctions of walls and slabs. (c) After two days of propercuring, applying a second coat of cement lurry admixed with proprietarywater proofing compound (d) Finishing the surface with 20mm thick joint less cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeksfor curing and for final test including cost of materials, labour complete as per specifications.**								
	PWD BCSR 2018-19,page 68 item No.10.2								
	Basic Rate:						1006.00		
	Add area weight age 6% as per PWD- SR Note						60.36		

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Total item Rate					1066.36			
				13.17	5.33		70.20		
							70.20		
	Total	**Sqm**					**70.20**	**1066.36**	**74854.31**
	PLUMBING WORKS								
	Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications.In ordinary soil								
	PWD BCSR 2018-19,page 6 Item No.2.3								
	Basic Rate:					299.00			
47	Add area weight age 6% as per PWD- SR Note					17.94			
	Total item Rate					316.94			
	Water line		1	275	0.3	0.3	24.75		
	Sanitary line		1	80	0.3	0.45	10.80		
	Total						**35.55**		
		Cum					**35.55**	**316.94**	**11267.22**
	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.								
	PWD BCSR 2018-19,page 7 Item No.2.11								
	Basic Rate:					121.00			
48	Add area weight age 6% as per PWD- SR Note					7.26			
	Total item Rate					128.26			
			1	275	0.3	0.3	24.75		
			1	80	0.3	0.45	10.80		
	Total						**35.55**		
		Cum					**35.55**	**128.26**	**4559.64**
	Providing stoneware gully trap of approved quality and make fixing in M-15 and plastering with CM 1:3 wherever necessary.(Rate includes cost of all materials, fixtures and lead). 15cms x 10cms								
	PWD BCSR 2018-19,page 90 item 12.122.2								
	Basic Rate:					280.00			
49	Add area weight age 6% as per PWD- SR Note					16.80			
	Total item Rate					296.80			
			3				3.00		
	Total						3.00		
		Nos					**3.00**	**296.80**	**890.40**

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Providing and fixing on wall surface 4.0 kg / sq.cm H.D.P.E. rain down water pipes 110mm outer dia. approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications.								
	PWD BCSR 2018-19, Page no 49, item no .8.19								
	Basic Rate:						512.00		
	Add area weight age 6% as per PWD- SR Note						30.72		
	Total item Rate						542.72		
			2	3			6.00		
							6.00		
	Total	Mtr					6.00	542.72	3256.32
51	KSRB 12-8.1 : Constructing brick masonry inspection chamber for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. 455x610mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm								
	PWD BCSR 2018-19,page 75 item No.11.50.1								
	Basic Rate:						7064.00		
	Add area weight age 6% as per PWD- SR Note						423.84		
	Total item Rate						7487.84		
			2				2.00		
							2.00		
	Total	Nos					2.00	7487.84	14975.68
52	Providing and fixing unplasticised PVC pipes with working pressure 10 kg/sq.cm with pipe fittings, clips, making good the floor, including cost of all materials, labour charges, HOM and testing complete as per specifications.160mm outer dia								
	PWD BCSR 2018-19,page 77 Item No.11.56.4								
	Basic Rate:						1252.00		
	Add area weight age 6% as per PWD- SR Note						75.12		
	Total item Rate						1327.12		
			1	80			80.00		
							80.00		
	Total	Mtr					80.00	1327.12	106169.60

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Indian pattern of size 580 x 440mm with integral type footrests, 100mm S trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.								
	PWD BCSR 2018-19, Page no 79, item no 12.2								
	Basic Rate:						4224.00		
	Add area weight age 6% as per PWD- SR Note						253.44		
	Total item Rate						4477.44		
			2				2.00		
	Total						**2.00**		
		Nos					**2.00**	**4477.44**	**8954.88**
	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.								
	PWD BCSR 2018-19, Page no 90, item no 12.111								
	Basic Rate:						150.00		
	Add area weight age 6% as per PWD- SR Note						9.00		
54	Total item Rate						159.00		
			3				3.00		
	Total						**3.00**		
		Nos					**3.00**	**159.00**	**477.00**
	Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.								
	PWD BCSR 2018-19, Page no 93, item no 13.27								
	Basic Rate:						141.00		
55	Add area weight age 6% as per PWD- SR Note						8.46		
	Total item Rate						149.46		
			6				6.00		
	Total						**6.00**		
		Nos					**6.00**	**149.46**	**896.76**
	KSRB13-6.3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. 20 mm dia nominal bore								
	PWD BCSR 2018-19,Page no 93, item no 13.33								
56	Basic Rate:						336.00		
	Add area weight age 6% as per PWD- SR Note						20.16		
	Total item Rate						356.16		
			2				2.00		
	Total						**2.00**		
		Nos					**2.00**	**356.16**	**712.32**

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	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Providing and fixing in position brass ball valve high or low pressure with ball float of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all accessories complete as per specifications.								
	PWD BCSR 2018-19, Page no 94, item no 13.41								
	Basic Rate: =						359.00		
	Add area weight age 6% as per PWD- SR Note =						21.54		
	Total item Rate =						380.54		
			1				1.00		
							1.00		
	Total	Nos					1.00	380.54	380.54
	Providing and fixing to wall, ceiling and floor high density polyethylene pipes 4.00 kgf/sq.cm working pressure of outside diameter raising mains & exposed distribution pipes with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM and testing complete as per specifications.32mm dia								
	PWD BCSR 2018-19,page 96 Item No.13.71								
	Basic Rate:						235.00		
	Add area weight age 6% as per PWD- SR Note						14.10		
	Total item Rate						249.10		
			1	275			275.00		
							275.00		
	Total	Mtr					275.00	249.10	68502.50
59	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1000 litre capacity)								
	PWD BCSR 2018-19,page 96 Item 13.78								
	Basic Rate:						6828.00		
	Add area weight age 6% as per PWD- SR Note						409.68		
	Total item Rate						7237.68		
			1				1.00		
							1.00		
	Total	Nos					1.00	7237.68	7237.68

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Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
Providing and fixing Chorinated Poly Venyl Chloride (CPVC) 20mm pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls								
PWD BCSR 2018-19,page 99 item no. 13.86.2								
Basic Rate:						235.00		
Add area weight age 6% as per PWD- SR Note						14.10		
Total item Rate						249.10		
		1	25			25.00		
						25.00		
Total	Mtr					25.00	249.10	6227.50
Providing and fixing Chorinated Poly Venyl Chloride (CPVC) 25mm pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.)								
PWD BCSR 2018-19,page 99 item no. 13.86.3								
Basic Rate:						293.00		
Add area weight age 6% as per PWD- SR Note						17.58		
Total item Rate						310.58		
		1	12			12.00		
						12.00		
Total	Mtr					12.00	310.58	3726.96
Provicing and fixing of submersible single phase motor 0.5/0.37								
PWD BCSR 2018-19, Page no XLII, SL NO 2								
Basic Rate:						10341.00		
Total item Rate						10341.00		
						1.00		
Total	Nos					1.00	10341.00	10341.00
							SUB-TOTAL	15,86,156.18
Works contract GST 12% as per 2018-19 PWD BC SR Note.5 as per Govt Letter No.PWD 65 RDF 2017, Dated 11-10-2018								1,90,338.74
							GRAND-TOTAL	17,76,494.92

Total (Rupees Ninety Nine Lakhs Only)

CERTIFICATE:-

1) This work spot has been inspected and the work is found to be necessary.
2) The work proposed in this estimate is not included in any other scheme.
3) The provision were made in this estimate are necessary essential and adequate to execute the work as per site condition.
4) The above work location is coming under jurisdiction of BBMP limit.

21/5/2020
Environmental Engineer,
Lakes Division BBMP

Executive Engineer-A,
Lakes Division BBMP

Prakash K 21/5/2020
Assistant Executive Engineer,
Lakes Division BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER-4, LAKES DIVISION
Detailed Estimate
Rates as per PWD & MI BCSR 2018-19

ork : Construction of Gazebo, Watchmen Shed, Pathway Improvement, Child Play and other development work Doddabommasandra lake ward No.10

made in estimate:

DING CHILD PLAY EQUIPMENTS

escription Of Work	Unit	No	L	B	D	Qty	Rate	Amount
ork for lowering and levelling the ground other than foundation works anical means upto 3.00 depth, including providing shoring strutting ing, removal of stumps and other deleterious matter, dressing of sides ttom, filling back the excavated earth to the extent required ng/transporting the remaining earth upto 1.00 km lead. Including the abour & HOM as per drawing and technical specification.								
BCSR 2018-19,page 8 item 2.24								
ic Rate:						61.00		
a weight age 6% as per PWD- SR Note						3.66		
tem Rate						64.66		
AREA LEVELING		1.00	15.00	15.00	0.30	67.50		
		1.00	60.00	0.90	0.60	32.40		
						99.90		
	cum					99.90	64.66	6459.53
4-1.2 : Providing and laying in position plain cement concrete of Mix with OPC @ 220kgs, with 40mm and down size graded granite metal e aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, achine mixed, concrete laid in layers not exceeding 15 cms. thick, well pacted, in foundation including cost of all materials, labour, HOM curing mplete as per specifications.								
D BCSR 2018-19,page 13 item 4.2								
ic Rate:						5194.00		
area weight age 6% as per PWD- SR Note						311.64		
al item Rate						5505.64		
RAY AREA OUTER SSM WALL		1.00	60.00	0.75	0.15	6.75		
tal						6.75		
	cum					6.75	5505.64	37163.07
RB 5.3-3: Providing and constructing granite / trap / basalt size stone asonry in basement with cement mortar 1:6, edges of stone chistle dressed in urses not less than 15 cms high, bond stones at two m. apart in each course cluding cost of materials, labour, curing complete as per specification .								
D BCSR 2018-19,page 25 item 5.9								
sic Rate:						5483.00		
ld area weight age 6% as per PWD- SR Note						328.98		
tal item Rate						5811.98		
RAY AREA OUTER SSM WALL		1.00	60.00	0.70	0.45	18.90		
		1.00	60.00	0.45	0.45	12.15		
tal						31.05		
						31.05	5811.98	180461.98
	cum							

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Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
, ruled pointing to coursed stone masonry with cement mortar 1:3, cp, after raking joints to depth of 20mm nicely lining including cost als, labour, HOM curing complete as per specifications								
SR 2018-19,page 256 item 34.13.2								
e:						142.00		
weight age 6% as per PWD- SR Note						8.52		
Rate						150.52		
REA OUTER SSM WALL		2.00	60.00		0.45	54.00		
	Sq.m					**54.00**		
						54.00	**150.52**	**8128.08**
1.6 ; Providing and laying in position plain cement concrete of Mix th OPC @ 240kgs, with 20mm and down size graded granite metal ggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, e laid in layers not exceeding 15 cms. thick, well compacted, in ion, plinth and cills, including cost of all materials, labour, HOM curing e as per specifications.								
CSR 2018-19,page 13 item 4.6								
te:						5422.00		
a weight age 6% as per PWD- SR Note						325.32		
em Rate						5747.32		
AY SIDE WALL COPING		1.00	60.00	0.45		0.10	2.70	
		40.00	0.40	0.45		0.40	2.88	
							5.58	
	cum						**5.58**	**5747.32**	**32070.05**
el Sand 5.6 to 75 microns								
D BCSR 2018-19,page III item 54								
Rate:						1680.95		
rea weight age 6% as per PWD- SR Note						100.86		
tem Rate						1781.81		
CHILDREN PLAY AREA		1.00	15.00	15.00		0.45	101.25	
Total							**101.25**	
	cum						**101.25**	**1781.81**	**180407.96**
viding and fixing stainless steel 304 grade for staircase railings, ninnies, ramps, with hand rail, 50mm dia 16 guage hollow pipe welded vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe ced at 1.20m regular intervals and 5 Nos of 25mm dia. Stainless steel low horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire embly is fixed to staircase concrete by using expansion bolts by drilling ncrete etc., complete including cost of materials, labour, HOM of and ctrical charges, etc., complete as per specifications.es, etc., complete as per ecifications								
TD BCSR 2018-19,page 45 item 7.38								
ic Rate:						6021.00		
e area weight age 6% as per PWD- SR Note						361.26		
al item Rate						6382.26		
		2.00	60.00	1.20			144.00	
Total							**144.00**	
	Sq.m						**144.00**	**5700.68**	**820897.92**

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Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
and fixing of childern Play Equipment Fiero A Swing : structural posts of height 2.31 m are to be schedule HOT DIP d steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. mponents such as swing seats [super thick plastic] shall be animated be rotationally molded from antistatic, copolymer, virgin linear low v stablized polyethylene, with color molded in and minimum of 6 - 8mm. The rates are to be inclusive of supply and installation								
dren Play Equipment		1.00				1.00		
	Each					1.00	107536.00	107536.00
and fixing of childern Play Equipment Monker Bar VFM Support posts of 32 m are to be schedule Galvanized steel with a 60 mm OD {Outer .All the posts are to be finished with a baked on powder coat finish. of size 1.3 m and Dia 48 mm shall be an welded unit, fabricated from alvanized steel pipes with a baked on powder coating finish. Bolts, ews, washers and etc used for assembly shall be stainless steel 304 d shall be of tamper resistant stainless steel. Electro - statically polyester powder must have a tough finish with maximum durability. s are to be inclusive of supply and installation at site.								
ildren Play Equipment		1.00				1.00		
	Each					1.00	80263.00	80263.00
and fixing of childern Play Equipment Four Seater Seesaw : CATIONS The See Saw consists of 2 poles of Dia 114mm and thickness m which balances the horizontal rod at the center which is of size 3110 gth and Dia 114 mm. It consists of 4 seats which is made of LLDPE lastic of size 305mm X 213 mm X 125 mm. The rates are to be ve of supply and installation at site.								
ildren Play Equipment		1.00				1.00		
	Each					1.00	90881.00	90881.00
and fixing of childern Play Equipment Merry go round - DX : The Merry nd consists of a round platform which is made of galvanized steel and thickness of 2.5 mm. It is also power coated with the thickness of 2.5 t is of Dia 1210 mm. It has 3 inverted "L" shaped handrails which is of Galvanized steel and of dimensions as 474 mmx 815 mm. It has ess of Dia 32 mm. The 3 handrails are separated exactly. All the 3 rails are connected to the Centre with the help of a rod which is also made lvanized steel and of Dia 48 mm and height 815 mm. The rates are to be ive of supply and installation at site.								
Children Play Equipment		1.00				1.00		
	Each					1.00	72068.00	72068.00

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Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
Supply and fixing of childern Play Equipment Puppy dog Rider / Elephant Horse rider : : HDPE of size 0.83 m x 0.31 m x 0.87 m, Plastic components [super thick plastic] shall be rotationally molded from antistatic, UV, virgin linear low density UV stabilized polyethylene, with "color fast" in not "added in". All rotational molding is carried out in state of the art precision, bi axial roto moulding machines which helps achieve guaranteed uniform wall thickness, seamless joints, accurate process control, one part construction to make it stress free. Specialized connectors such as clamps and bolts are to be cast from aluminium which is pre-treated, and cured, with a two pack powder coat finish.The rates are to be inclusive of supply and installation at site.								
Children Play Equipment	Each	1.00				1.00		
						1.00	47268.00	47268.00
Supply and fixing of childern Play Equipment Creppy Crawly climber: The main support bars are of height 1.5 m are to be schedule HOT DIP Galvanized pipes with a 48 mm OD. Powder coatings used is Akzo Nobel's. The finished products have the following typical characteristics: 0.5mm thickness, oven temperature between 191oC and 220oC, to achieve Flexibility, Impact, Salt Spray (Corrosion) Resistance, Hardness, and Adhesion. All post caps are to be cast aluminum which is pretreated, cured and sandblasted, 114mm diameter, two pack baked on powder coat finish.Handrail of height Dia 32 mm shall be an all-round circle welded unit, fabricated from 32 O.D. galvanized steel pipes with a two pack baked on powder coating finish. The Electro- statically applied polyester powder coat has a tough finish with maximum durability using AkzoNobel INTERPON paints application, and dual zone cure oven to a thickness of 0.5mm smoothness, oven cured between 191oC and 220oC. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as per EN1176 standards for safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and prevention against vandalism as well.The rates are to be inclusive of supply and installation at site.								
Children Play Equipment	Each	1.00				1.00		
						1.00	188225.00	188225.00
								1,51,870.63
12% GST								1,05,523.38
18% GST								2109223.60
TOTAL FOR ONE NUMBER								

CERTIFICATE:-

This work spot has been inspected and the work is found to be necessary.

The work proposed in this estimate is not included in any other scheme.

The provision were made in this estimate are necessary essential and adequate to execute the work as per site condition.

The above work location is coming under jurisdiction of BBMP limit.

21/5/2020

Environmental Engineer,
Lakes Division BBMP

21/5/2020

Assistant Executive Engineer,
Lakes Division BBMP

21/5/20

Executive Engineer-4,
Lakes Division BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER-4, LAKES DIVISION

Detailed Estimate

Name of Work : Construction of Gazebo, Watchmen Shed, Pathway Improvement, Child Play Equipment and other development work Doddabommasandra lake ward No.10

Provision made in estimate:

7. ELECTRICAL WORKS

Slno	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
1	**Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary**								
	Electrical SR 2019-20 Page No 02 item No 1.2								
	19/20mm dia 2mm thick	Mts					18.00	**40.00**	**720.00**
	25mm dia 2mm thick	Mts					15.00	**53.00**	**795.00**
2	**Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.**								
	Electrical SR 2019-20 Page No 02 item No 1.30								
	19/20mm dia 2mm thick	Mts					13.00	**51.00**	**663.00**
	25mm dia 2mm thick	Mts					10.00	**54.00**	**540.00**
	Supplying And Fixing Metal Fan Box with	No					4.00	**85.00**	**340.00**
3	**Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A**								
	Electrical SR 2019-20 Page No 05 item No 2.1								
	Short point upto 3Mtr from tapping point to out let via switch	Point					8.00	**200.00**	**1600.00**
	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch	Point					6.00	**275.00**	**1650.00**

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Slno	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
4	**Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.**								
	Electrical SR 2019-20 Page No 05 item No 2.3								
	1.5 sqmm	Mts					60.00	**14.00**	**840.00**
	2.5 sqmm	Mts					95.00	**32.00**	**3040.00**
	4 sqmm	Mts					15.00	**45.00**	**675.00**
5	**Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall**								
	Electrical SR 2019-20 Page No 09 item No 3.4								
	1-3Way	Each					5.00	**95.00**	**475.00**
	4-5Way	Each					1.00	**105.00**	**105.00**
6	**Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.**								
	Electrical SR 2019-20 Page No 09 item No 3.5								
	1 to 3 Module	Each					5.00	**110.00**	**550.00**
	4 Module	Each					1.00	**125.00**	**125.00**

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Slno	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A								
	Electrical SR 2019-20 Page No 10 item No 3.6 and 3.11								
7	6Amps one way.	Each					4.00	70.00	280.00
	6Amps 3way socket.	Each					4.00	105.00	420.00
	Stepped Fan Regulator.	Each					2.00	290.00	580.00
	16Amps one way switch	Each					3.00	115.00	345.00
	6Amps Bell push	Each					1.00	96.00	96.00
	6/16Amps universal socket	Each					3.00	162.00	486.00
	Supplying 50mm wooden plug, tapered	No					100.00	7.00	700.00
	Supplying & fixing retrofit type -PL- LED Lamp .....W LED linear source with CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition.8-9 Watts								
8	**Electrical SR 2019-20 Page No 64 item No 12.20**								
	19/20mm dia 2mm thick	Each					8.00	350.00	2800.00
	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.100Amps								
9	**Electrical SR 2019-20 Page No 44 item No 5.7**								
		Each					2.00	349.00	698.00
10	**Supplying and fixing regular MCCB distribution Panel confirming to IS 8828, on wall / wood board / flush mounting using required clamps, bolts, nuts, etc., with provision for fixing of suitable type capacity MCCB's as an incomer for 3 phase Double door with necessary bus bar completely wired to use on 440Volts 3phase 4 wire powder coated painting etc., complete with a provision for fixing of single/ three phase suitable capacity MCCB/MCB's as outgoings confirming to IS8828.4Way**								
	Electrical SR 2019-20 Page No 27 item No 5.2								
		Each					1.00	7000.00	7000.00

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Slno	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
11	**Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.**								
	Electrical SR 2019-20 Page No 27 item No 5.17								
	6-32Amps SP	Each					3.00	434.00	1302.00
	6-32 Amps DP	Each					1.00	909.00	909.00
12	**Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Single Door8Way SP &N**								
	Electrical SR 2019-20 Page No 27 item No 5.18.7								
		Each					1.00	960.00	960.00
13	**Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia**								
	Electrical SR 2019-20 Page No 40 item No 6.1								
	19/20mm dia 2mm thick	No					1.00	2999.70	2999.70
14	**Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip**								
	Electrical SR 2019-20 Page No 40 item No 6.3								
	25x3mm	Mts					12.00	75.00	900.00
	600x600x3mm GI Plate	Each					1.00	760.00	760.00

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Slno	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
15	**Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.**								
	Electrical SR 2019-20 Page No 40 item No 6.40								
	4 core 16 sqmm	Mts					15.00	130.00	1950.00
16	**Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374- 1979 and with double ball bearing system.**								
	Electrical SR 2019-20 Page No 46 item No 7.3								
	48" Sweep (1200mm) Regular model	Each					4.00	2090.00	8360.00
17	**Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders**								
	Electrical SR 2019-20 Page No 79 item No 14.7.1								
		Each					8.00	110.00	880.00
								SUB-TOTAL	44,543.70
9	**Works contract GST 12%** as per 2018-19 PWD BC SR Note.5 as per Govt Letter No.PWD 65 RDF 2017, Dated 11-10-2018								5,345.24
								GRAND-TOTAL	49,888.94
	Total (Rupees Ninety Nine Lakhs Only)								

CERTIFICATE:-

1) This work spot has been inspected and the work is found to be necessary.
2) The work proposed in this estimate is not included in any other scheme.
3) The provision were made in this estimate are necessary essential and adequate to execute the work as per
4) The above work location is coming under jurisdiction of BBMP limit.

21/5/2020
Environmental Engineer,
Lakes Division BBMP

21/5/2020
Assistant Executive Engineer,
Lakes Division BBMP

21/5/20
Executive Engineer-4,
Lakes Division BBMP

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